

1106-55-2330      **Marian F Anton** and **Kim-Vui H Duong\*** (k.duong@my.ccsu.edu). *Index Theory in a Paschian Geometry*. Preliminary report.

We investigate an index theory in a geometry which is subject only to the incidence and order axioms. In particular, we give some applications to coverage problems for planar regions bounded by simple closed polygons and inquire about their generalizations. (Received September 16, 2014)